## WHAT IS CLAIMED IS:

## 1. A compound of the formula A:

$$(CR^{1a}_{2})_{p}X$$
 $R^{2}$ 
 $R^{2}$ 
 $R^{3}$ 
 $R^{3}$ 
 $R^{3}$ 
 $R^{4b}$ 
 $R^{4b}$ 
 $R^{4b}$ 
 $R^{4b}$ 
 $R^{4b}$ 
 $R^{4b}$ 
 $R^{4b}$ 
 $R^{4b}$ 
 $R^{4b}$ 
 $R^{4b}$ 

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wherein:

R1a is independently selected from:

a) hydrogen,

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b) aryl, heterocycle, C<sub>3</sub>-C<sub>10</sub> cycloalkyl, R<sup>10</sup>O-, R<sup>11</sup>S(O)<sub>m</sub>-,  $R^{10}C(O)NR^{10}\text{-}, (R^{10})_2N\text{-}C(O)\text{-}, CN, NO_2, (R^{10})_2N\text{-}C(NR^{10})\text{-}, \\ R^{10}C(O)\text{-}, R^{10}OC(O)\text{-}, -N(R^{10})_2, \text{ or } R^{11}OC(O)NR^{10}\text{-},$ 

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unsubstituted or substituted C1-C6 alkyl, unsubstituted or substituted C2-C6 alkenyl or unsubstituted or substituted C2-C6 alkynyl, wherein the substituent on the substituted C1-C6 alkyl, substituted C2-C6 alkenyl or substituted C2-C6 alkynyl is selected from unsubstituted or substituted aryl, heterocyclic, C3-C10 cycloalkyl, C2-C6 alkenyl, C2-C6 alkynyl, R10O-, R11S(O)<sub>m</sub>-, R10C(O)NR10-, (R10)<sub>2</sub>N-C(O)-, CN, (R10)<sub>2</sub>N-C(NR10)-, R10C(O)-, R10OC(O)-, -N(R10)<sub>2</sub>, and R11OC(O)-NR10-,

or two R<sup>1</sup>as on the same carbon atom may be combined to form -(CH<sub>2</sub>)t-;

R1b and R1c are independently selected from:

a) hydrogen,

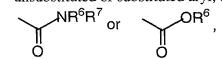
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- b) aryl, heterocycle, C<sub>3</sub>-C<sub>10</sub> cycloalkyl,  $(R^{10})_2N$ -C(O)-,  $(R^{10})_2N$ -C(NR<sup>10</sup>)-, R<sup>10</sup>C(O)- or R<sup>10</sup>OC(O)-, and
- unsubstituted or substituted C1-C6 alkyl, unsubstituted or substituted C2-C6 alkenyl or unsubstituted or substituted C2-C6 alkynyl, wherein the substituent on the substituted C1-C6 alkyl, substituted C2-C6 alkenyl or substituted C2-C6 alkynyl is selected from unsubstituted or substituted aryl, heterocyclic, C3-C10 cycloalkyl, C2-C6 alkenyl, C2-C6 alkynyl, one or more fluorines, R<sup>10</sup>O-, R<sup>11</sup>S(O)<sub>m</sub>-, R<sup>10</sup>C(O)NR<sup>10</sup>-, (R<sup>10</sup>)2N-C(O)-, CN, (R<sup>10</sup>)2N-C(NR<sup>10</sup>)-, R<sup>10</sup>C(O)-, R<sup>10</sup>OC(O)-, -N(R<sup>10</sup>)2, and R<sup>11</sup>OC(O)-NR<sup>10</sup>-;

 $R^2$  and  $R^3$  are independently selected from H; unsubstituted or substituted  $C_{1-8}$  alkyl, unsubstituted or substituted  $C_{2-8}$  alkenyl, unsubstituted or substituted  $C_{2-8}$  alkynyl, unsubstituted or substituted aryl, unsubstituted or substituted heterocycle,



wherein the substituted group is substituted with one or more of:

- 1) aryl or heterocycle, unsubstituted or substituted with:
  - a) C<sub>1-4</sub> alkyl,
  - b)  $(CH_2)_pOR^6$ ,
  - c)  $(CH_2)_pNR^6R^7$ ,
  - d) halogen,
  - e) CN,
- 2) C<sub>3-6</sub> cycloalkyl,
- 3)  $OR^6$ ,
- 25 4)  $SR^4$ ,  $S(O)R^4$ ,  $SO_2R^4$ ,

 $-NR^6R^7 \qquad ,$ 

7) 
$$-N NR^5R^7 ,$$

8) 
$$-O \longrightarrow NR^6R^7$$

9) 
$$-O \longrightarrow OR^6$$

$$-SO_2-NR^6R^7$$

$$-N-SO_2-R^4$$

13) 
$$\mathbb{R}^6$$

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 $\rm R^2$  and  $\rm R^3$  are attached to the same carbon atom and are combined to form -(CH2)\_u-wherein one of the carbon atoms is optionally replaced by a moiety selected from O, S(O)\_m, -NC(O)-, and -N(COR^{10})-; and

- R<sup>4</sup> is selected from C<sub>1-4</sub> alkyl, C<sub>3-6</sub> cycloalkyl, heterocycle, aryl, unsubstituted or substituted with:
  - a) C<sub>1-4</sub> alkoxy,
  - b) aryl or heterocycle,
  - c) halogen,
- 10 d) HO,
  - e) R<sup>11</sup>
  - f)  $--SO_2R^{11}$
  - g)  $N(R^{10})_2$ , or
  - h) one or more fluorines;

 ${\mathbb R}^5, {\mathbb R}^6$  and  ${\mathbb R}^7$  are independently selected from:

- 1) hydrogen,
- 2)  $R^{10}C(O)$ -, or  $R^{10}OC(O)$ -, and
- 3) C1-C6 alkyl, C2-C6 alkenyl, C2-C6 alkynyl, C3-6 cycloalkyl, heterocycle, aryl, aroyl, heteroaroyl, arylsulfonyl, heteroarylsulfonyl, unsubstituted or substituted with one or more substituents selected from:
  - a)  $R^{10}O_{-}$
  - b) aryl or heterocycle,
  - c) halogen,
  - d)  $R^{10}C(O)NR^{10}$ ,
  - e) R<sup>10</sup>
  - $-SO_2R^{11}$

- g)  $N(R^{10})_2$ ,
- h) C<sub>3-6</sub> cycloalkyl,
- i) C<sub>1</sub>-C<sub>6</sub> perfluoroalkyl,
- j)  $(R^{10})_2N-C(NR^{10})_{-}$
- k)  $R^{10}OC(O)$ -,
- 1)  $R^{11}OC(O)NR^{10}$ -,
- m) CN, and
- n) NO2; or

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 $R^6$  and  $R^7$  may be joined in a ring; and independently,

 $R^5$  and  $R^7$  may be joined in a ring;

- 15 R<sup>8</sup> is independently selected from:
  - a) hydrogen,
  - b) unsubstituted or substituted aryl, unsubstituted or substituted heterocycle, C3-C10 cycloalkyl, C2-C6 alkenyl, C2-C6 alkynyl, C1-C6 perfluoroalkyl, F, Cl, Br, R<sup>12</sup>O-, R<sup>11</sup>S(O)<sub>m</sub>-, R<sup>10</sup>C(O)NR<sup>10</sup>-, (R<sup>10</sup>)2NC(O)-, R<sup>10</sup>2N-C(NR<sup>10</sup>)-, CN, NO2, R<sup>10</sup>C(O)-, R<sup>10</sup>OC(O)-, -N(R<sup>10</sup>)2, or R<sup>11</sup>OC(O)NR<sup>10</sup>-, and
  - c) C<sub>1</sub>-C<sub>6</sub> alkyl unsubstituted or substituted by unsubstituted or substituted aryl, unsubstituted or substituted heterocycle, C<sub>3</sub>-C<sub>10</sub> cycloalkyl, C<sub>2</sub>-C<sub>6</sub> alkenyl, C<sub>2</sub>-C<sub>6</sub> alkynyl, C<sub>1</sub>-C<sub>6</sub> perfluoroalkyl, F, Cl, Br, R<sup>10</sup>O-, R<sup>11</sup>S(O)<sub>m</sub>-, R<sup>10</sup>C(O)NH-, (R<sup>10</sup>)<sub>2</sub>NC(O)-, R<sup>10</sup><sub>2</sub>N-C(NR<sup>10</sup>)-, CN, R<sup>10</sup>C(O)-, R<sup>10</sup>OC(O)-, -N(R<sup>10</sup>)<sub>2</sub>, or R<sup>10</sup>OC(O)NH-;

R<sup>9</sup> is independently selected from:

- a) hydrogen,
- 30 b) C2-C6 alkenyl, C2-C6 alkynyl, C1-C6 perfluoroalkyl, F, Cl, Br,  $R^{10}\text{O-}, R^{11}\text{S}(\text{O})_{\text{m-}}, R^{10}\text{C}(\text{O})\text{NR}^{10}\text{-}, (R^{10})\text{2NC}(\text{O})\text{-}, R^{10}\text{2N-} \\ \text{C}(\text{NR}^{10})\text{-}, \text{CN}, \text{NO2}, R^{10}\text{C}(\text{O})\text{-}, R^{10}\text{OC}(\text{O})\text{-}, -\text{N}(R^{10})\text{2}, \text{ or } \\ R^{11}\text{OC}(\text{O})\text{NR}^{10}\text{-}, \text{ and}$ 
  - c) C<sub>1</sub>-C<sub>6</sub> alkyl unsubstituted or substituted by C<sub>1</sub>-C<sub>6</sub> perfluoroalkyl,

$$\begin{split} &\text{F, Cl, Br, R$^{10}$O-, R$^{11}$S(O)$_{m^-}$, R$^{10}$C(O)NR$^{10}$-, (R$^{10}$)2NC(O)-, \\ &\text{R$^{10}$_2N-C(NR$^{10}$)-, CN, R$^{10}$C(O)-, R$^{10}$OC(O)-, -N(R$^{10}$)2, or \\ &\text{R$^{11}$OC(O)NR$^{10}$-;} \end{split}$$

5 R<sup>10</sup> is independently selected from hydrogen, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkyl substituted with one or more fluorines, benzyl, unsubstituted or substituted aryl and unsubstituted or substituted heterocycle;

R<sup>11</sup> is independently selected from C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkyl substituted with one or more fluorines, unsubstituted or substituted aryl and unsubstituted or substituted heterocycle;

R<sup>12</sup> is independently selected from hydrogen, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkyl substituted with one or more fluorines, unsubstituted or substituted benzyl, unsubstituted or substituted aryl, unsubstituted or substituted heterocycle, and C<sub>1</sub>-C<sub>6</sub> alkyl substituted with unsubstituted or substituted aryl or unsubstituted or substituted heterocycle;

 $G^1$ ,  $G^2$  and  $G^3$  are independently selected from ( $R^2$ , $R^3$ ) and O;

- 20 V is selected from:
  - a) heterocycle, and
  - b) aryl;

W is  $S(O)_m$ , O or CH<sub>2</sub>;

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X is selected from: a bond, -C(O)-,  $-NR^{10}C(O)$ -,  $-N(R^{10})S(O)_2$ - and  $S(O)_2$ ;

Y is selected from a bond, -C(O)-,  $-C(O)NR^{10}$ -, -C(O)O-,  $-(CR^{1c}2)$ - and  $-S(O)_m$ ;

- 30 Z is selected from unsubstituted or substituted aryl and unsubstituted or substituted heterocycle, wherein the substituted aryl or substituted heterocycle is substituted with one or more of:
  - 1) C<sub>1-8</sub> alkyl, C<sub>2-8</sub> alkenyl or C<sub>2-8</sub> alkynyl, unsubstituted or substituted with:

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C<sub>1-4</sub> alkoxy,
                       a)
                              NR^6R^7,
                       b)
                              C<sub>3-6</sub> cycloalkyl,
                      c)
                               aryl or heterocycle,
                       d)
 5
                      e)
                              HO,
                              -S(O)_mR^4,
                      f)
                              -C(O)NR^6R^7, or
                      g)
                               one or more fluorines;
                      h)
                      substituted or unsubstituted aryl or substituted or unsubstituted
              2)
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                      heterocycle,
              3)
                      halogen,
                      OR6,
              4)
                      NR6R7,
              5)
                      CN,
              6)
15
                      NO<sub>2</sub>,
               7)
                      CF3;
               8)
                      -S(O)_mR^4,
               9)
                      -OS(O)2R^4,
               10)
                      -C(O)NR^6R^7,
               11)
                      -C(O)OR^6, or
20
               12)
                      C3-C6 cycloalkyl;
               13)
      m is independently 0, 1 or 2;
      p is independently 0, 1, 2, 3 or 4;
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      q is 1 or 2;
      r is 0 to 5;
      s is 1 or 2;
      t is 2, 3, 4, 5 or 6; and
      u is 2, 3, 4 or 5;
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or a pharmaceutically acceptable salt or stereoisomer thereof.

2. The compound according to Claim 1 of the formula B:

$$(CR^{1a}_{2})_{p}X$$
 $N$ 
 $N$ 
 $R^{3}$ 
 $R^{1b}$ 
 $V$ 
 $(R^{8})_{r}$ 
 $R$ 

wherein:

c)

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R1a is independently selected from:

a) hydrogen,

b)  $R^{10}O_{-}$ ,  $-N(R^{10})_2$ ,  $R^{10}C(O)NR^{10}_{-}$ ,  $R^{11}OC(O)O_{-}$  or  $R^{11}OC(O)NR^{10}_{-}$ , and

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C1-C6 alkyl, unsubstituted or substituted by R<sup>10</sup>O-, -N(R<sup>10</sup>)2, R<sup>10</sup>C(O)NR<sup>10</sup>-, R<sup>11</sup>OC(O)O-, R<sup>11</sup>OC(O)NR<sup>10</sup>- or R<sup>11</sup>S(O)<sub>m</sub>-;

 $R^{\mbox{\scriptsize $1$}\mbox{\scriptsize $b$}}$  and  $R^{\mbox{\scriptsize $1$}\mbox{\scriptsize $c$}}$  are independently selected from:

- a) hydrogen, and
- 15 b) unsubstituted or substituted C1-C6 alkyl, wherein the substituent on the substituted C1-C6 alkyl is selected from one or more fluorines,  $R^{10}O^{-}, R^{11}S(O)_{m^{-}}, R^{10}C(O)NR^{10}^{-}, R^{10}OC(O)O^{-} \text{ and } R^{11}OC(O)^{-} NR^{10}^{-};$
- 20 R<sup>3</sup> is selected from H and CH<sub>3</sub>;

R<sup>2</sup> is selected from H;

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$$NR^6R^7$$
;

and C<sub>1-5</sub> alkyl, unbranched or branched, unsubstituted or substituted with one or more of:

- 1) aryl,
- 2) heterocycle,
- $OR^6$ ,
- 4)  $SR^4$ ,  $SO_2R^4$ , or
- 5) NR<sup>6</sup>R<sup>7</sup>

and any two of  $\mathbb{R}^2$  and  $\mathbb{R}^3$  are optionally attached to the same carbon atom;

R<sup>4</sup> is selected from:

C<sub>1-4</sub> alkyl and C<sub>3-6</sub> cycloalkyl, unsubstituted or substituted with:

- a) C<sub>1-4</sub> alkoxy,
- b) one or more fluorines, or
- c) aryl or heterocycle;

R6 and R7 are independently selected from H; C<sub>1-6</sub> alkyl, C<sub>3-6</sub> cycloalkyl,

heterocycle, aryl, aroyl, heteroaroyl, arylsulfonyl, heteroarylsulfonyl, unsubstituted or substituted with one or two:

- 20 a)  $C_{1-4}$  alkoxy,
  - b) aryl or heterocycle,
  - c) halogen,
  - d) HO,
  - e) R<sup>11</sup>
  - f)  $-SO_2R^{11}$
  - g)  $N(R^{10})_{2, \text{ or }}$
  - h) C3-6 cycloalkyl;

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R<sup>8</sup> is independently selected from:

- a) hydrogen,
- b) unsubstituted or substituted aryl, C1-C6 alkyl, C2-C6 alkenyl, C2-C6 alkynyl, C1-C6 perfluoroalkyl, F, Cl, R $^{12}$ O-, R $^{10}$ C(O)NR $^{10}$ -, CN, NO2, (R $^{10}$ )2N-C(NR $^{10}$ )-, R $^{10}$ C(O)-, -N(R $^{10}$ )2, or R $^{11}$ OC(O)NR $^{10}$ -, and
- c) C<sub>1</sub>-C<sub>6</sub> alkyl substituted by: unsubstituted or substituted aryl, C<sub>1</sub>-C<sub>6</sub> perfluoroalkyl, R<sup>10</sup>O-, R<sup>10</sup>C(O)NR<sup>10</sup>-, (R<sup>10</sup>)<sub>2</sub>N-C(NR<sup>10</sup>)-, R<sup>10</sup>C(O)-, -N(R<sup>10</sup>)<sub>2</sub>, or R<sup>11</sup>OC(O)NR<sup>10</sup>-;

 $R^{10}$  is independently selected from hydrogen,  $C_1$ - $C_6$  alkyl,  $C_1$ - $C_6$  alkyl substituted with one or more fluorines, benzyl and unsubstituted or substituted aryl;

R<sup>11</sup> is independently selected from C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkyl substituted with one or more fluorines, and unsubstituted or substituted aryl;

R<sup>12</sup> is independently selected from hydrogen, C<sub>1</sub>-C<sub>6</sub> alkyl, unsubstituted or substituted benzyl, unsubstituted or substituted aryl, unsubstituted or substituted heterocycle, and C<sub>1</sub>-C<sub>6</sub> alkyl substituted with one or more fluorines, unsubstituted or substituted aryl or unsubstituted or substituted heterocycle;

 $G^1$  and  $G^2$  are independently selected from  $(R^2,R^3)$  and O;

- 25 V is selected from:
  - a) heterocycle selected from pyridinyl, pyridonyl, 2-oxopiperidinyl, indolyl, quinolinyl and isoquinolinyl, and
  - b) aryl;
- 30 W is S or CH2;

X is selected from a bond, -C(O)- or -S(O)<sub>m</sub>;

Y is selected from a bond, -C(O)-,  $-C(O)NR^{10}$ -, -C(O)O-,  $-(CR^{1c}2)$ - and  $-S(O)_m$ ;

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Z is selected from unsubstituted or substituted aryl or unsubstituted or substituted heterocycle, wherein the substituted aryl or substituted heterocycle is independently substituted with one or two of:

- 5 1) C<sub>1-8</sub> alkyl, C<sub>2-8</sub> alkenyl or C<sub>2-8</sub> alkynyl, unsubstituted or substituted with:
  - a) C<sub>1-4</sub> alkoxy,
  - b)  $NR^6R^7$ ,
  - c) C<sub>3-6</sub> cycloalkyl,
- d) aryl or heterocycle,
  - e) HO,
  - f)  $-S(O)_m R^4$ ,
  - g)  $-C(O)NR^6R^7$ , or
  - h) one or more fluorines;
- substituted or unsubstituted aryl or substituted or unsubstituted heterocycle,
  - 3) halogen,
  - 4)  $OR^6$ ,
  - 5)  $NR^6R^7$ ,
- 20 6) CN,
  - 7) NO<sub>2</sub>,
    - 8) CF<sub>3</sub>,
    - 9)  $-S(O)_{m}R^{4}$ ,
    - 10)  $-OS(O)2R^4$ ,
- 25 11)  $-C(O)NR^6R^7$ ,
  - 12)  $-C(O)OR^6$ , or
  - 13) C3-C6 cycloalkyl;

m is 0, 1 or 2;

30 n is 0, 1 or 2; p is 0, 1, 2, 3 or 4; q is 1 or 2; and r is 0 to 5; or a pharmaceutically acceptable salt or stereoisomer thereof.

## 3. The compound according to Claim 2 of the formula C:

$$(R^8)_r$$
  $(CR^{1a}_2)_p$   $R^3$   $(CR^{1b}_2)_p$   $R^3$ 

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wherein:

R1a is independently selected from:

a) hydrogen,

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b)  $R^{10}O_{-}$ ,  $-N(R^{10})_{2}$ ,  $R^{10}C(O)NR^{10}_{-}$ ,  $R^{11}OC(O)O_{-}$  or  $R^{11}OC(O)NR^{10}_{-}$ , and

c)  $C_1$ -C<sub>6</sub> alkyl, unsubstituted or substituted by  $R^{10}O$ -,  $-N(R^{10})_2$ ,  $R^{10}C(O)NR^{10}$ -,  $R^{11}OC(O)O$ -,  $R^{11}OC(O)NR^{10}$ - or  $R^{11}S(O)_m$ -;

15 R<sup>1b</sup> is selected from:

- a) hydrogen, and
- b) unsubstituted or substituted C1-C6 alkyl, wherein the substituent on the substituted C1-C6 alkyl is selected from one or more fluorines,  $R^{10}O^{-}, R^{11}S(O)_{m^{-}}, R^{10}C(O)NR^{10}_{-}, R^{10}OC(O)O^{-} \ \, \text{and} \ \, R^{11}OC(O)^{-} \ \, NR^{10}_{-};$

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 $R^3$  is selected from H and CH3;

R<sup>2</sup> is selected from H;

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$$NR^6R^7$$
;

and C<sub>1-5</sub> alkyl, unbranched or branched, unsubstituted or substituted with one or more of:

- 1) aryl,
- 2) heterocycle,
- 3)  $OR^6$ ,
- 4)  $SR^4$ ,  $SO_2R^4$ , or
- 5) NR<sup>6</sup>R<sup>7</sup>

and any two of  $\mathbb{R}^2$  and  $\mathbb{R}^3$  are optionally attached to the same carbon atom;

R<sup>4</sup> is selected from:

C<sub>1-4</sub> alkyl and C<sub>3-6</sub> cycloalkyl, unsubstituted or substituted with:

- a) C<sub>1-4</sub> alkoxy,
- b) one or more fluorines, or
- c) aryl or heterocycle;

 $R^6$  and  $R^7$  are independently selected from H;  $C_{1-6}$  alkyl,  $C_{3-6}$  cycloalkyl, heterocycle, aryl, aroyl, heteroaroyl, arylsulfonyl, heteroarylsulfonyl, unsubstituted or substituted with one or two:

- 20 a)  $C_{1-4}$  alkoxy,
  - b) aryl or heterocycle,
  - c) halogen,
  - d) HO,
  - e) R<sup>11</sup>
  - $f_1$  —SO<sub>2</sub>R<sup>11</sup>
  - g)  $N(R^{10})_{2, \text{ or }}$
  - h) C<sub>3-6</sub> cycloalkyl;

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R<sup>8</sup> is independently selected from:

- a) hydrogen,
- b) unsubstituted or substituted aryl, C1-C6 alkyl, C2-C6 alkenyl, C2-C6 alkynyl, C1-C6 perfluoroalkyl, F, Cl, R $^{12}$ O-, R $^{10}$ C(O)NR $^{10}$ -, CN, NO2, (R $^{10}$ )2N-C(NR $^{10}$ )-, R $^{10}$ C(O)-, -N(R $^{10}$ )2, or R $^{11}$ OC(O)NR $^{10}$ -, and
- c) C<sub>1</sub>-C<sub>6</sub> alkyl substituted by: unsubstituted or substituted aryl, C<sub>1</sub>-C<sub>6</sub> perfluoroalkyl, R<sup>10</sup>O-, R<sup>10</sup>C(O)NR<sup>10</sup>-, (R<sup>10</sup>)<sub>2</sub>N-C(NR<sup>10</sup>)-, R<sup>10</sup>C(O)-, -N(R<sup>10</sup>)<sub>2</sub>, or R<sup>11</sup>OC(O)NR<sup>10</sup>-;

 $R^{10}$  is independently selected from hydrogen,  $C_1$ - $C_6$  alkyl,  $C_1$ - $C_6$  alkyl substituted with one or more fluorines, benzyl and unsubstituted or substituted aryl;

15 R<sup>11</sup> is independently selected from C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkyl substituted with one or more fluorines and unsubstituted or substituted aryl;

R<sup>12</sup> is independently selected from hydrogen, C<sub>1</sub>-C<sub>6</sub> alkyl, unsubstituted or substituted benzyl, unsubstituted or substituted aryl, unsubstituted or substituted heterocycle, and C<sub>1</sub>-C<sub>6</sub> alkyl substituted with one or more fluorines, unsubstituted or substituted aryl or unsubstituted or substituted heterocycle;

 $G^1$  is selected from  $(R^2,R^3)$  and O;

W is S or CH2;

X is selected from a bond, -C(O)- or  $-S(O)_m$ ;

Y is selected from a bond, -C(O)-,  $-C(O)NR^{10}$ -, -C(O)O-, or  $-S(O)_m$ ;

Z is selected from unsubstituted or substituted aryl or unsubstituted or substituted heterocycle, wherein the substituted aryl or substituted heterocycle is independently substituted with one or two of:

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C<sub>1-8</sub> alkyl, C<sub>2-8</sub> alkenyl or C<sub>2-8</sub> alkynyl, unsubstituted or substituted
               1)
                        with:
                                C<sub>1-4</sub> alkoxy,
                        a)
                                NR6R^7
                        b)
 5
                                C3-6 cycloalkyl,
                        c)
                                aryl or heterocycle,
                        d)
                        e)
                                HO,
                                -S(O)_mR^4,
                        f)
                                -C(O)NR^6R^7, or
                        g)
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                                one or more fluorines;
                        h)
               2)
                        substituted or unsubstituted aryl or substituted or unsubstituted
                        heterocycle,
               3)
                        halogen,
                        OR6,
               4)
                        NR^6R^7,
15
               5)
                        CN,
               6)
                        NO<sub>2</sub>,
               7)
                        CF<sub>3</sub>,
               8)
                        -S(O)_mR^4,
               9)
                        -OS(O)2R^4,
               10)
20
                        -C(O)NR^6R^7,
               11)
                        -C(O)OR^6, or
               12)
                        C3-C6 cycloalkyl;
               13)
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      m is 0, 1 or 2;
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n is 0, 1 or 2; p is 0, 1, 2, 3 or 4; q is 1 or 2; and r is 0 to 5;

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or a pharmaceutically acceptable salt or stereoisomer thereof.

## 4. A compound which is selected from:

- (3*R*) 5-{1-[4-(3-Chlorophenyl)-3-oxo-piperazin-1-yl]-methanoyl}-3-(4-cyanophenyl)-2,3-dihydro-imidazo[2,1-b]thiazole
- (3*S*) 5-{1-[4-(3-Chlorophenyl)-3-oxo-piperazin-1-yl]-methanoyl}-3-(4-cyanophenyl)-5 2,3-dihydro-imidazo[2,1-b]thiazole
  - 5-[1-[4-(3-chlorophenyl)-3-oxo-piperazin-1-ylmethyl]-3-(4-cyanophenyl)-2, 3-dihydro-imidazo[2,1-b]thiazole
- $5-\{1-[4-(3-Chlorophenyl)-piperazin-1-yl]-methanoyl\}-3-(4-cyanophenyl)-2, 3-dihydro-imidazo[2,1-b]thiazole$ 
  - (3R) 5-{1-[(2S) 2-butyl -4-(3-methoxyphenyl)-5-oxo-piperazin-1-yl]-methanoyl}-3-(4-cyanophenyl)-2,3-dihydro-imidazo[2,1-b]thiazole
- 15
  (3S) 5-{1-[(2S) 2-butyl-4-(3-methoxyphenyl)-5-oxo-piperazin-1-yl]-methanoyl}-3-(4-cyanophenyl)-2,3-dihydro-imidazo[2,1-b]thiazole
- (3*R*) 3-(4-Cyanophenyl)-5-{1-[(2*S*) 4-(3-methoxyphenyl)-5-oxo-2-(2-thienylmethyl)-20 1-piperazinyl]-methanoyl}-2,3-dihydro-imidazo[2,1-b]thiazole
  - $(3S)\ 3-(4-Cyanophenyl)-5-\{1-[(2S)\ 4-(3-methoxyphenyl)-5-oxo-2-(2-thienylmethyl)-1-piperazinyl]-methanoyl\}-2,3-dihydro-imidazo[2,1-b]thiazole$
- 25 (1R,S) (3R) 5-{1-[4-(3-Chlorophenyl)-3-oxo-piperazin-1-yl]-methanoyl}-3-(4-cyanophenyl)-1-oxo-2,3-dihydro-imidazo[2,1-b]thiazole
  - (1R,S) (3S) 5- $\{1-[4-(3-Chlorophenyl)-3-oxo-piperazin-1-yl]-methanoyl\}-3-(4-cyanophenyl)-1-oxo-2,3-dihydro-imidazo[2,1-b]thiazole$
  - (3R) 5- $\{1-[4-(3-Chlorophenyl)-3-oxo-piperazin-1-yl]-methanoyl\}-3-(4-cyanophenyl)-1,1-dioxo-2,3-dihydro-imidazo[2,1-b]thiazole$

 $(3S) \ 5-\{1-[4-(3-Chlorophenyl)-3-oxo-piperazin-1-yl]-methanoyl\}-3-(4-cyanophenyl)-1,1-dioxo-2,3-dihydro-imidazo[2,1-b]thiazole$ 

- 3-{1-[4-(3-Chlorophenyl)-3-oxo-piperazin-1-yl]-methyl}-5-(4-cyanophenyl)-5,6,7,8-tetrahydroimidazo[1,2-a]pyridine
  - (5R) 3- $\{1-[4-(3-chlorophenyl)-3-oxo-piperazin-1-yl]-methanoyl\}-5-(4-cyanophenyl)-6,7-dihydro-5H-pyrrolo<math>[1,2-a]$ imidazole
- 10 (5*S*) 3-{1-[4-(3-chlorophenyl)-3-oxo-piperazin-1-yl]-methanoyl}-5-(4-cyanophenyl)-6,7-dihydro-5H-pyrrolo[1,2-a]imidazole
  - $5-\{1-[4-(3-Chlorophenyl)-3-oxo-piperazin-1-yl]-methanoyl\}-3-(4-cyanophenyl)-3-methyl-2,3-dihydroimidazo[2,1-b]thiazole$
- 5-{1-[4-(2-Bromo-5-(allyloxy)benzyl)-3-oxo-piperazin-1-yl]-methanoyl}-3-(4-cyanophenyl)-2,3-dihydro-imidazo[2,1-b]thiazole
- 3-{1-[4-(2-chloro-5-hydroxybenzyl)-3-oxo-piperazin-1-yl]-methanoyl}-5-(4-cyano-3-fluorophenyl)-6,7-dihydro-5H-pyrrolo[1,2-a]imidazole

or a pharmaceutically acceptable salt or stereoisomer thereof.

- 5. A compound according to Claim 4 which is selected from:
- 25 (3*R*) 5-{1-[4-(3-Chlorophenyl)-3-oxo-piperazin-1-yl]-methanoyl}-3-(4-cyanophenyl)-2,3-dihydro-imidazo[2,1-b]thiazole

N N CN

 $(3S) 5-\{1-[4-(3-Chlorophenyl)-3-oxo-piperazin-1-yl]-methanoyl\}-3-(4-cyanophenyl)-2,3-dihydro-imidazo[2,1-b]thiazole$ 

5

(5*R*) 3-{1-[4-(3-chlorophenyl)-3-oxo-piperazin-1-yl]-methanoyl}-5-(4-cyanophenyl)-10 6,7-dihydro-5H-pyrrolo[1,2-a]imidazole

(5*S*) 3-{1-[4-(3-chlorophenyl)-3-oxo-piperazin-1-yl]-methanoyl}-5-(4-cyanophenyl)-6,7-dihydro-5H-pyrrolo[1,2-a]imidazole

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or a pharmaceutically acceptable salt or stereoisomer thereof.

- 6. A pharmaceutical composition comprising a pharmaceutical carrier, and dispersed therein, a therapeutically effective amount of a compound of Claim 1.
  - 7. A pharmaceutical composition comprising a pharmaceutical carrier, and dispersed therein, a therapeutically effective amount of a compound of Claim 3.

- 8. A pharmaceutical composition comprising a pharmaceutical carrier, and dispersed therein, a therapeutically effective amount of a compound of Claim 4.
- 9. A method for inhibiting prenyl-protein transferase which comprises administering to a mammal in need thereof a therapeutically effective amount of a composition of Claim 6.
- 10. A method for inhibiting prenyl-protein transferase which comprises administering to a mammal in need thereof a therapeutically effective amount of a composition of Claim 7.

- 11. A method for inhibiting prenyl-protein transferase which comprises administering to a mammal in need thereof a therapeutically effective amount of a composition of Claim 8.
- 5 12. A method for treating cancer which comprises administering to a mammal in need thereof a therapeutically effective amount of a composition of Claim 6.
- 13. A method for treating cancer which comprises administering to a mammal in need thereof a therapeutically effective amount of a composition of Claim 7.
- 14. A method for treating cancer which comprises administering to a mammal in need thereof a therapeutically effective amount of a composition of Claim 8.
  - 15. A method for treating neurofibromin benign proliferative disorder which comprises administering to a mammal in need thereof a therapeutically effective amount of a composition of Claim 6.

- 16. A method for treating blindness related to retinal vascularization which comprises administering to a mammal in need thereof a therapeutically effective amount of a composition of Claim 6.
- 25 17. A method for treating infections from hepatitis delta and related viruses which comprises administering to a mammal in need thereof a therapeutically effective amount of a composition of Claim 6.
- 18. A method for preventing restenosis which comprises 30 administering to a mammal in need thereof a therapeutically effective amount of a composition of Claim 6.
  - 19. A method for treating polycystic kidney disease which comprises administering to a mammal in need thereof a therapeutically effective amount of a composition of Claim 6.

20. A method of conferring radiation sensitivity on a tumor cell using a therapeutically effective amount of a composition of Claim 6 in combination with radiation therapy.

- 21. A method of using a therapeutically effective amount of a composition of Claim 6 in combination with an antineoplastic to treat cancer.
- 22. A method according to Claim 21 wherein the antineoplastic is paclitaxel.
  - 23. A pharmaceutical composition made by combining the compound of Claim 1 and a pharmaceutically acceptable carrier.
- 15 24. A process for making a pharmaceutical composition comprising combining a compound of Claim 1 and a pharmaceutically acceptable carrier.